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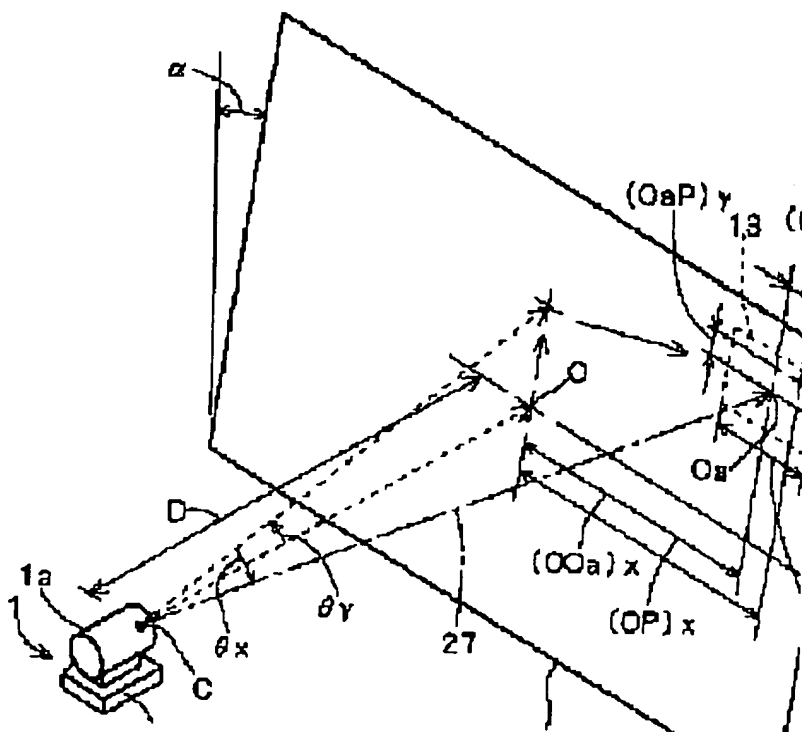
(74) Representative:

**(54) POSITION DETECTION
METHOD USING IMAGE
PICKUP CAMERA**

(57) Abstract:

PROBLEM TO BE SOLVED: To detect the coordinate of a position on a plane area, which corresponds to a prescribed position in a picked-up image in a simple and in expensive equipment.

SOLUTION: In the method, a pan tilt camera 1 image-picks up the point of measurement object P, which is the object of position detection on the plane area 11. A coordinate point corresponding to the point of measurement object P is recognized from the picked-up image. An X-coordinate (OP)x and a Y-coordinate (OP)y on the plane area 11 of the point of measurement object P are detected by substituting the coordinate of the coordinate point on the picked up image, a distance D between the pan tilt camera 1 and the



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plane area 11, the inclination angle α of the plane area 11, a pan angle θ_x and a tilt angle θ_y , which decide the image pickup direction of the pan tilt camera 1 and the zoom value Z of the pan tilt camera 1 for prescribed X and Y measurement functions which are previously derived. Thus, the X -coordinate (OP) $_x$ and the Y -coordinate (OP) $_y$ of the point of measurement object P on the plane area 11 are detected.

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